



THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :
Yuki MOTOYAMA et al. : Docket No. 2003_0922A
Serial No. 10/614,296 :
Filed July 8, 2003 :

OPTICALLY ACTIVE COMPOUND AND
LIQUID CRYSTAL COMPOSITION
CONTAINING THE COMPOUND

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of ☒ the references listed on attached form PTO-1449 and/or ☐ the additional information identified below in paragraph 3. A legible copy of each reference listed on the form PTO-1449 and each U.S. patent application listed below is enclosed.

1a. ☒ This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, **or**

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

1b. ☐ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

(1) ☐ the certification of paragraph 2 below is provided, **or**

(2) ☐ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

2. It is hereby certified

a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or

b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.


4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:

a. ☐ a full or partial English language translation submitted herewith,

- b. ☐ a foreign patent office search report (in the English language) submitted herewith,
 - c. ☐ the concise explanation contained in the specification of the present application at page,
 - d. ☐ the concise explanation set forth in the attached English language abstract,
 - e. ☐ the concise explanation set forth below or on a separate sheet attached to the reference:
5. ☒ A foreign patent office (European) search report citing one or more of the references is enclosed.

Respectfully submitted,

Yuki MOTOYAMA et al.

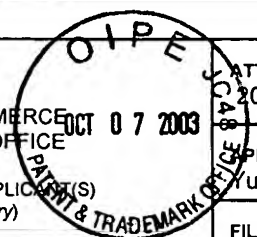
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October 7, 2003

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: October 7, 2003

ATTY DOCKET NO.
2003_0922ASERIAL NO.
10/614,296APPLICANT
Yuki MOTOYAMA et al.FILING DATE
July 8, 2003

U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|----------------------|----|--------------------|------|------|-------|----------|-------------------------------|
| | AA | | | | | | |
| | AB | | | | | | |
| | AC | | | | | | |
| | AD | | | | | | |
| | AE | | | | | | |
| | AF | | | | | | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION YES NO | |
|--|----|--------------------|---------|---------|-------|----------|-----------------------|--|
| | AC | 1 270 542 A | 1/2003 | Europe | | | | |
| | AH | 1 249 484 A | 10/2002 | Europe | | | | |
| | AI | | | | | | | |
| | AJ | | | | | | | |
| | AK | | | | | | | |

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|--|----|--|
| | AL | Patent Abstracts of Japan; vol. 017, no. 291 (C-1067), June 4, 1993; & JP 05 017405 A (Kanebo Ltd), January 26, 1993 |
| | AM | Patent Abstracts of Japan; vol. 014, no. 539 (C-0782), November 28, 1990 & JP 02 227489 A (Dainippon Ink & Chemic Inc; Others: 01), September 10, 1990 |
| | AN | Patent Abstracts of Japan, vol. 017, no. 309 (C-1070), June 14, 1993 & JP 05 025085 A (Kashima Sekiyu KK), February 2, 1993 |
| | AO | Nakauchi et al., J; <i>Ferroelectric Liquid Crystal Mixtures Doped with Compounds Having Chiral Groups at Both Ends of the Core</i> ; Japanese Journal of Applied Physics; 28(2); pp. L272-274; (1989) |

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of form with next communication to applicant.